

Title (en)

METHOD, COMPUTER PROGRAM PRODUCT AND DEVICE FOR TRAINING A NEURAL NETWORK

Title (de)

VERFAHREN, COMPUTERPROGRAMMPRODUKT UND VORRICHTUNG ZUM TRAINIEREN EINES NEURONALEN NETZES

Title (fr)

PROCÉDÉ, PRODUIT-PROGRAMME INFORMATIQUE ET DISPOSITIF DE FORMATION D'UN RÉSEAU NEURONAL

Publication

EP 3336774 B1 20201125 (EN)

Application

EP 16203595 A 20161213

Priority

EP 16203595 A 20161213

Abstract (en)

[origin: EP3336774A1] The present invention relates generally to a method, device and computer program product for training neural networks being adapted to process image data and output a vector of values forming a feature vector for the processed image data. The training is performed using feature vectors from a reference neural network as ground truth. The present invention further relates to a system of devices for tracking an object using feature vectors outputted by neural networks running on the devices.

IPC 8 full level

G06N 3/04 (2006.01); **G06N 3/08** (2006.01)

CPC (source: CN EP KR US)

G06F 18/2132 (2023.01 - US); **G06F 18/214** (2023.01 - CN US); **G06F 18/217** (2023.01 - US); **G06F 18/22** (2023.01 - CN);
G06F 18/28 (2023.01 - US); **G06N 3/045** (2023.01 - CN EP KR US); **G06N 3/08** (2013.01 - KR US); **G06N 3/084** (2013.01 - EP US)

Citation (examination)

- ADRIANA ROMERO ET AL: "FitNets: hints for thin deep nets", ARXIV:1412.6550v4, 27 March 2015 (2015-03-27), XP055349753, Retrieved from the Internet <URL:<https://arxiv.org/abs/1412.6550v4>> [retrieved on 20170227]
- LI HANXI ET AL: "DeepTrack: Learning Discriminative Feature Representations Online for Robust Visual Tracking", IEEE TRANSACTIONS ON IMAGE PROCESSING, IEEE SERVICE CENTER, PISCATAWAY, NJ, US, vol. 25, no. 4, 1 April 2016 (2016-04-01), pages 1834 - 1848, XP011602601, ISSN: 1057-7149, [retrieved on 20160308], DOI: 10.1109/TIP.2015.2510583

Cited by

WO2020201746A1; US11068782B2; US11080601B2; US11494652B2; US11645532B2; US11544565B2; US11977845B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3336774 A1 20180620; EP 3336774 B1 20201125; CN 108229539 A 20180629; CN 108229539 B 20230912; JP 2018139103 A 20180906; JP 7072374 B2 20220520; KR 102605599 B1 20231123; KR 20180068292 A 20180621; TW 201822076 A 20180616; TW I803472 B 20230601; US 10956781 B2 20210323; US 2018165546 A1 20180614

DOCDB simple family (application)

EP 16203595 A 20161213; CN 201711294768 A 20171208; JP 2017231464 A 20171201; KR 20170165966 A 20171205; TW 106139605 A 20171116; US 201715840868 A 20171213